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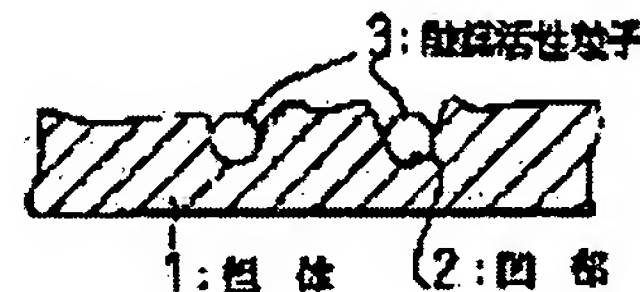
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(54) EXHAUST GAS PURIFYING CATALYST AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To improve durability and carrying efficiency by covering a catalytically active particle, which is exposed to the surface of a support, with the support at a specified ratio of the whole surface area, regarding an exhaust gas purifying catalyst produced by depositing the catalytically active particle on a support.

SOLUTION: This exhaust gas purifying catalyst is produced by depositing a catalytically active particle 3 on a support 1 and 20-90% of the whole surface area of the catalytically active particle 3 is covered with the support 1. That is, recessed parts 2 are formed in the support 1 and the catalytically active particle 3 is buried in the part while a part of the particle 3 being exposed to the surface. Since the catalyst is so constituted as to have such a structure in which the catalytically active particle 3 is captured by the support 1 and movement of the particle is inhibited, sintering and deterioration of the catalytic activity due to sintering are prevented and the durability is improved. The catalytically active metal particle to be deposited may be a composite body of a plurality of types of particles and, in this case, a material produced by arranging a second metal particle on the surface of a first metal particle, for example, arrangement of rhodium particle on platinum particle is used and alumina is used as the support.



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